APPENDIX C. PIPE SPECIFICATIONS FOR ON-SITE SEWAGE TREATMENT SYSTEMS [REVOKED]

| USE | PIPE SIZE | ACCEPTABLE MATERIALS |
|--|---------------------|--|
| Building sewer and other solid pipe when used for single family residences only | Minimum 3" diameter | Acrylonitrile Butadiene Styrene (ABS): ASTM D2661 ASTM D2751 ASTM F628 |
| Building sewer and other solid pipe when the average flow is 2,000 gpd or less | Minimum 4" diameter | Polyvinyl Chloride (PVC): ASTM D2665 ASTM D2949 |
| Building sewer and other solid pipe when the average flow is greater than 2,000 gpd | Minimum 6" diameter | ASTM 3033 ASTM 3034 ASTM F789 |
| Discharge line from lift stations or other pressurized effluent waste water lines [†] | Minimum 1" diameter | Polyvinyl Chloride (PVC): ASTM D2846 ASTM F441 |
| Low pressure dosing manifold pipe | 3" diameter | ASTM F442 Schedule 40 |
| Low pressure dosing perforated pipe | 1 ½" diameter | |
| Perforated pipe when used in a conventional subsurface absorption field or an ET/A field | Minimum 3" diameter | Polyethylene (PE): ASTM F405 ASTM F810 ASTM D3350 |
| | | Polyvinyl Chloride (PVC): ASTM D2729 ASTM D3034 ASTM D3350 |

[†] All reclaimed, pressurized water piping shall be colored purple (Pantone 522) by the manufacturer.

APPENDIX C. PIPE SPECIFICATIONS FOR ON-SITE SEWAGE TREATMENT SYSTEMS [NEW]

| LICE | DIDE CIZE | ACCEPTABLE MATERIALS |
|--|-----------------------------|---|
| USE | PIPE SIZE 3" to 4" diameter | ACCEPTABLE MATERIALS |
| Solid pipe when used for single family residences or small | 3 to 4 diameter | Acrylonitrile Butadiene Styrene (ABS): ASTM D2661 |
| public systems where the flow | | ASTM D2001 ASTM D2751 |
| is 1,500 gpd or less | | ASTM B2731 ASTM F628 |
| is 1,500 gpu of less | Minimum 6" diameter | 11011111020 |
| | withing of diameter | Polyvinyl Chloride (PVC): |
| | | ASTM D2665 |
| Solid pipe when the average | | ASTM D2949 |
| flow is greater than 1,500 gpd | | ASTM D3033 |
| | | ASTM D3034 |
| | | ASTM F789 |
| Discharge line from lift stations | | |
| or other pressurized effluent | Minimum 1" diameter | Polyvinyl Chloride (PVC): |
| waste water lines [†] | | ASTM D2846 |
| | | ASTM F441 |
| Y " da | 211 41 4 | ASTM F442 |
| Low pressure dosing manifold | 3" diameter | Schedule 40 |
| pipe | 1 ½" diameter | |
| Low pressure dosing | 1 ½ diameter | |
| perforated pipe | | |
| Perforated pipe when used in a | Minimum 3" diameter | |
| conventional subsurface | | Polyethylene (PE): |
| absorption field or an ET/A | | ASTM F810 |
| field | | ASTM D3350 |
| | | |
| | | Polyvinyl Chloride (PVC): |
| | | ASTM D2729 |
| | | ASTM D3034 |
| | | ASTM D3350 |

† All reclaimed, pressurized water piping shall be colored purple (Pantone 522) by the manufacturer.

APPENDIX E. HORIZONTAL SEPARATION DISTANCE REQUIREMENTS FOR ON-SITE SEWAGE TREATMENT SYSTEMS [REVOKED]

Required Horizontal Separation Distances in Feet

| | Aerobic Treatment Unit, Flow Equalization Tank, Low Pressure Dosing Tank, Lift Station, Septic Tank & Trash Tank | Perforated Pipe, Chamber, or Drip Irrigation Line | Solid Pipe | Lagoons | Spray Irrigation Heads | Spray Irrigation Effluent |
|--|--|---|---------------|---------|------------------------------|---------------------------------|
| Private Well or Surface Water Supply | 50 1 | 50 ¹ | 50 3 | 50 2, 4 | 50 ¹ | 25 |
| Public Water Supply Well | 300 | 300 | 50 | 300 4 | 300 | 300 |
| Building | 5 | 5 | N/A | 50 5, 6 | N/A | N/A |
| Other Structure ⁷ | N/A ⁸ | 5 | N/A 9 | N/A | N/A | N/A |
| Waterline | 5 | 15 | 10 10 | 15 4 | 15 | N/A |
| Property Line | 5 | 5 | 5 | 10 5 | 15 | 15 |
| Impoundment or Stream ¹¹ | 15 | 15 | N/A | 15 5 | 25 | 25 |
| French Drain/ Curtain Drain | 15 | 15 | N/A | 15 5 | 15 | 15 |

Distances shall be one hundred feet (100') if the soil percolates one inch (1") in less than five (5) minutes or is classified as a Group 1 soil in the separation range.

²Distances shall be one hundred feet (100') if the ground slopes toward the water supply.

³Distances may be reduced up to ten feet (10') if, at a minimum, Schedule 40 pipe is used.

⁴ The distance shall be measured horizontally from the center line of the nearest dike.

⁵The distance shall be measured from the outside base of the nearest dike.

⁶ This only applies to residences that are not located on the owner's property.

^{7 &}quot;Other structures" include but are not limited to driveways, parking lots and paved areas.

⁸ If septic tanks are located under paved areas, access to all manhole/cleanout openings shall be provided.

⁹ If solid pipe is installed under a roadway or a driveway, the pipe under the roadway/driveway and the ten feet (10') of pipe extending out from under the roadway/driveway on both sides shall be, at a minimum Schedule 40 pipe or sleeved with Schedule 40 pipe.

¹⁰ Ten feet (10') horizontal or two feet (2') vertical separation shall be maintained between any water line and solid pipe. When proper horizontal and vertical separation cannot be obtained then the solid pipe shall be constructed of, at a minimum, Schedule 40 pipe and shall be installed so the joints of both the water line and the solid pipe are as far apart as possible.

¹¹ This includes the top bank of any stream or the normal pool elevation of an impoundment that is not used for a surface water supply.

APPENDIX E. HORIZONTAL SEPARATION DISTANCE REQUIREMENTS FOR ON-SITE SEWAGE TREATMENT SYSTEMS [NEW]

Required Horizontal Separation Distances in Feet

| | Aerobic Treatment Unit, Flow Equalization Tank, Low Pressure Dosing Tank, Lift Station, Septic Tank & Trash Tank | Perforated Pipe, Chamber, or Drip Irrigation Line | Solid Pipe | Lagoons | Spray Irrigation Heads | Spray Irrigation Effluent |
|--|--|---|---------------|---------|------------------------------|---------------------------------|
| Private Well or Surface Water Supply | 50 1 | 50 ¹ | 50 3 | 50 2, 4 | 50 ¹ | 25 |
| Public Water Supply Well | 300 | 300 | 50 | 300 4 | 300 | 300 |
| Building | 5 | 5 | N/A | 50 5, 6 | N/A | N/A |
| Other Structure ⁷ | N/A ⁸ | 5 | N/A 9 | N/A | N/A | N/A |
| Waterline | 5 | 15 | 10 10 | 15 4 | 15 | N/A |
| Property Line | 5 | 5 | 5 | 10 5 | 10 | 10 |
| Impoundment or Stream ¹¹ | 15 | 15 | N/A | 15 5 | 25 | 25 |
| French Drain/ Curtain Drain | 15 | 15 | N/A | 15 5 | 15 | 15 |

Distances shall be one hundred feet (100') if the soil percolates one inch (1") in less than five (5) minutes or is classified as a Group 1 soil in the separation range.

²Distances shall be one hundred feet (100') if the ground slopes toward the water supply.

³Distances may be reduced up to ten feet (10') if, at a minimum, Schedule 40 pipe is used.

⁴ The distance shall be measured horizontally from the center line of the nearest dike.

⁵ The distance shall be measured from the outside base of the nearest dike.

⁶ This only applies to residences that are not located on the owner's property.

^{7 &}quot;Other structures" include but are not limited to driveways, parking lots and paved areas.

⁸ If septic tanks are located under paved areas, access to all manhole/cleanout openings shall be provided.

⁹ If solid pipe is installed under a roadway or a driveway, the pipe under the roadway/driveway and the ten feet (10') of pipe extending out from under the roadway/driveway on both sides shall be, at a minimum Schedule 40 pipe or sleeved with Schedule 40 pipe.

Ten feet (10') horizontal or two feet (2') vertical separation shall be maintained between any water line and solid pipe. When proper horizontal and vertical separation cannot be obtained then the solid pipe shall be constructed of, at a minimum, Schedule 40 pipe and shall be installed so the joints of both the water line and the solid pipe are as far apart as possible.

¹¹ This includes the top bank of any stream or the normal pool elevation of an impoundment that is not used for a surface water supply.

APPENDIX F. ESTIMATED AVERAGE DAILY FLOW FOR SMALL PUBLIC ON-SITE SEWAGE TREATMENT SYSTEMS [REVOKED]

| TYPE OF ESTABLISHMENT | FLOW UNIT | ESTIMATED AVERAGE DAILY FLOW In Gallons |
|--|---------------------------------|---|
| Bar or Lounge | Per Seat | 10 |
| Boarding School | Per Room | 50 |
| Church w/o Kitchen | Per Sanctuary Seat | 4 |
| Church w/Kitchen | Per Sanctuary Seat | 6 |
| Condominiums, Apartments, Townhouses, Mobile Home Parks, | Per Residence w/1 or 2 Bedrooms | 200 |
| and Housing Developments | Each additional Bedroom | 66 |
| Construction Site | Per Worker | 50 |
| Country Club | Per Member | 25 |
| Daycare w/o Kitchen | Per Child | 15 |
| Daycare w/Kitchen | Per Child | 25 |
| Factory | Per Person Per Shift | 15 |
| Hospital | Per Bed | 200 |
| Hotel or Motel | Per Bed | 75 |
| Lounge | Per Seat | 10 |
| Movie Theater | Per Seat | 5 |
| Nursing Home | Per Bed | 100 |
| Office Building w/o Food Service | Per Occupant | 5 |
| Office Building w/Food Service | Per Occupant | 10 |
| Park w/o Bathhouse | Per Person | 10 |
| Park w/Bathhouse | Per Person | 15 |
| Laundry Mat | Per Machine | 250 |
| Restaurant-Fast Food | Per Seat | 15 |
| Restaurant-Full Service | Per Seat | 35 |
| RV Park | Per Space | 50 |
| School w/Food Service | Per Student | 25 |
| School w/o Food Service | Per Student | 15 |
| Service Station | Per Vehicle | 10 |
| Stores | Per Restroom | 200 |
| Swimming Pool Bathhouses | Per Person | 10 |
| Youth Camps | Per Camper | 30 |

APPENDIX F. ESTIMATED AVERAGE DAILY FLOW FOR SMALL PUBLIC ONSITE SEWAGE TREATMENT SYSTEMS [NEW]

| TYPE OF ESTABLISHMENT | FLOW UNIT | ESTIMATED AVERAGE DAILY FLOW In Gallons | BOD¹ lbs/day per flow unit |
|--|------------------------------------|---|----------------------------|
| Bar or Lounge | Per Seat | 10 | 0.08 |
| Boarding School | Per Room | 50 | 0.20 |
| Church w/o Kitchen | Per Sanctuary Seat | 4 | 0.01 |
| Church w/Kitchen | Per Sanctuary Seat | 6 | 0.02 |
| Condominiums, Apartments, Townhouses, Mobile Home | Per Residence w/1 or 2 Bedrooms | 200 | 0.50 |
| Parks, and Housing Developments | Each additional Bedroom | 66 | 0.17 |
| Construction Site | Per Worker | 50 | 0.17 |
| Country Club | Per Member | 25 | 0.02 |
| Daycare w/o Kitchen | Per Child | 15 | 0.08 |
| Daycare w/Kitchen | Per Child | 25 | 0.10 |
| Factory | Per Person Per Shift | 15 | 0.08 |
| Hospital | Per Bed | 200 | 0.50 |
| Hotel or Motel | Per Bed | 75 | 0.15 |
| Movie Theater | Per Seat | 5 | 0.01 |
| Nursing Home | Per Bed | 100 | 0.26 |
| Office Building w/o Food Service | Per Occupant | 5 | 0.06 |
| Office Building w/Food Service | Per Occupant | 10 | 0.17 |
| Park w/o Bathhouse | Per Person | 10 | 0.01 |
| Park w/Bathhouse | Per Person | 15 | 0.02 |
| Laundry Mat | Per Machine | 250 | 0.30 |
| Restaurant-Fast Food | Per Seat | 15 | 0.10 |
| Restaurant-Full Service | Per Seat | 35 | 0.23 |
| RV Park | Per Space | 50 | 0.20 |
| School w/Food Service | Per Student | 25 | 0.10 |
| School w/o Food Service | Per Student | 15 | 0.04 |
| Service Station | Per Vehicle | 10 | 0.20 |
| Stores | Per Restroom | 200 | 0.05 |
| Youth Camps | Per Camper | 30 | 0.12 |

BOD numbers provided are based on industry data and represents standard loading rates for the design of aerobic treatment units.

APPENDIX M. EXAMPLES OF TRENCH INSTALLATION [REVOKED]

Figure 1. Cross-Section of Conventional Subsurface Absorption Trench

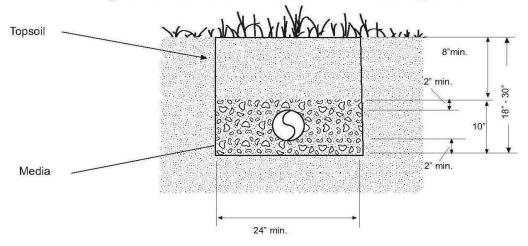


Figure 2. Cross-Section of ET/A Trench

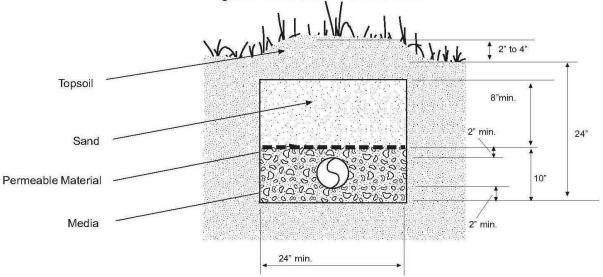
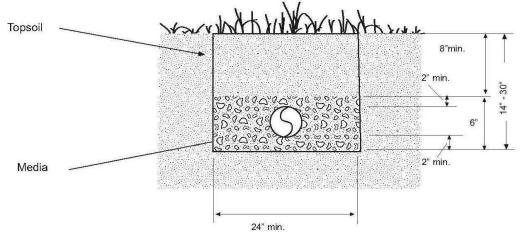


Figure 3. Cross-Section of Low Pressure Dosing



APPENDIX M. EXAMPLES OF TRENCH INSTALLATION [NEW] Figure 1. Cross-Section of Conventional Subsurface Absorption Trench

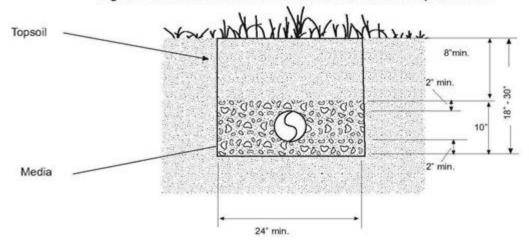


Figure 2. Cross-Section of ET/A Trench

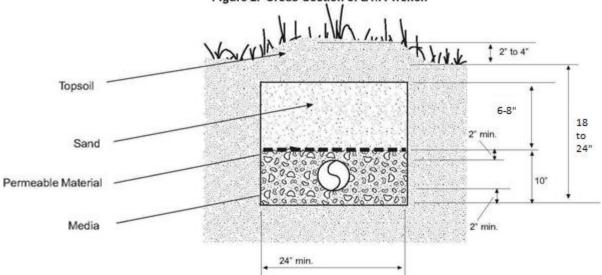


Figure 3. Cross-Section of Low Pressure Dosing

